

1	1. A videophone system, comprising:
2	a cable television system headend;
3	a plurality of subscriber terminals connected to said headend via a
4	transmission medium;
5	a videophone unit connected to at least one of said plurality of subscriber
6	terminals;
7	a camera associated with each said videophone unit, said camera being
. 8	adapted to capture video images for transmission via said videophone unit; and
· 5 9	at least one display device associated with each videophone unit;
10	wherein said videophone unit is adapted to transmit and receive
	videophone signals over said transmission medium of said cable television system.
:: 1	2. The videophone system of Claim 1, wherein said transmission medium
2	comprises hybrid fiber coax.
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11	The videophone system of Claim 2, wherein said camera is a digital video
2	camera.
. 1	4. The videophone system of Claim 1, wherein said videophone unit further
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2	comprises: a processor for encoding videophone data to be transmitted and for
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4.	decoding received videophone signals.
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1	5. The videophone system of Claim 4, wherein said videophone unit further
2	comprises an encoder for providing display signals to said display.

1		6. The videophone system of Claim 5, wherein said encoder comprises an
2		analog television signal encoder.
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1		7. The videophone system of Claim 5, wherein said encoder comprises a
2		digital television compositor/display
1		8. The videophone system of Claim 1, wherein said subscriber terminal is
2		capable of being configured to operate as a cable modem.
1		9. The videophone system of Claim 1, wherein said subscriber terminal
2		comprises a cable modem.
1		10. The videophone system of Claim 1, further comprising a graphical user
2		interface operable via a remote control for enabling a user of said videophone system to
3		place and receive videophone calls.
1	1 de	The videophone system of Claim 1, wherein said headend is coupled to a
2	A4	second headend via a high-speed long distance network to enable videophone signals to
3		be transported between two different cable television-systems.
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1		12. The videophone system of Claim 1, wherein a plurality of videophone units
2		are connected to one subscriber terminal.
1		13. The videophone system of Claim 1, wherein said videophone unit is
2		connected said subscriber terminal by at least one interface selected from the group
3		comprising: ethernet, wireless ethernet, firewire, universal serial bus, PCI and PCMCIA.
1	/dw	14. The videophone system of Claim 12, wherein said plurality of videophones
2	Ã5 /	are connected to said one subscriber terminal via a local area network.

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1		15.	The videophone system of Claim 11, wherein said long distance network
2		includes at le	ast one of a satellite network and a terrestrial network.
1	,	16.	The videophone system of Claim 1, wherein said headend is adapted to
2	115	convert vide	ophone signals from one predetermined format to a second predetermined
3	Ale/	format based	on a format of a videophone-signal receiving unit, wherein a transmitting
4		videophone u	nit transmits videophone signals in a format different from a format of said
5		videophone s	signal receiving unit.
1		17.	A cable television system adapted to provide transport of videophone
2		signals, comp	orising:
3	in5\		a cable television system headend;
4	A6		a plurality of hubs operatively coupled to said headend; and
5			a plurality of nodes operatively coupled to said hubs and operatively
6		coupled to a	plurality of videophones via a subscriber terminal, said subscriber terminal
7		and videopho	ne being operatively coupled to a display device, wherein videophone signals
8		are transport	ed over the cable television system.
1		· 18.	The cable television system of Claim 17, wherein said headend comprises:
2			a backbone switch;
3			a router, an application server, a receiver, a gateway and a network
4		controller, ea	ch operatively connected to said backbone switch; and
5			a modulator connected to said gateway.
1		19.	The cable television system of Claim 18, wherein each of said hubs
2		comprise:	
3		-	an interface device coupled to the backbone switch of said headend;
4			a gateway and a modulator operatively coupled to said interface; and

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1		a demodulator coupled to said modulator and said plurality of nodes.
1 2		20. The cable television system of Claim 17, wherein said subscriber termina comprises a cable modem.
1 2	A7)	The cable television system of Claim 20, wherein a plurality of videophones are connected to a single cable modern via a local area network.
1 2		22. The cable television system of Claim 17, wherein said subscriber terminal is capable of being configured to operate as a cable modem.
1 2 3	105 A8	The cable television system of Claim 17, wherein said headend is in communication with at least one-second headend via a long distance network, thereby enabling transport of videophone signals between separate cable-television systems.
1 2		24. The cable television system of Claim 19, wherein said interface device comprises a local area network interface.
1 2		25. The cable television system of Claim 17, wherein said cable television system includes a transmission medium comprising hybrid fiber coax.
1 2	ins Ag	26. The cable television system of Claim 17, wherein said videophone further comprises a digital camera for capturing video images to be transmitted.
1 2		27. The cable television system of Claim 17, wherein said videophone is integrated into said subscriber terminal.

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28. The cable television system of Claim 17, wherein said subscriber terminal
is interfaced to at least one videophone by at least one interface of the group comprising:
ethernet, wireless ethernet, firewire, universal serial bus and PCMCIA.

29. A method for transporting videophone signals over a cable television network comprising the steps of:

creating a videophone signal;

encoding said videophone signal;

transmitting the encoded videophone signal to a predetermined receiver over said cable television network;

receiving the transmitted videophone signal at said predetermined receiver; decoding the received videophone signal; and displaying the decoded videophone signal on a display device.

30. The method of Claim 29, further comprising the step of:

converting said encoded videophone signal at a headend of said cable television network to provide a converted videophone signal that is compatible with devices connected to said cable television network or to devices of a second cable television network.

- 31. The method of Claim 29, wherein said transmitted videophone signals are further transmitted to a receiver coupled to a second cable television network via a headend of the cable television network over a long distance data network.
- 32. The method of Claim 29, wherein said received videophone signal is received by a videophone device coupled to a second cable television network.
- 33. The method of Claim 29, wherein said videophone signal is encoded with a destination address identifying an intended receiver of said videophone signal.

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1	34.	The method of Claim 33, wherein said destination address comprises an
2	IP address.	A
1	35.	The method of Claim 29, wherein the steps of creating, transmitting and
2	receiving said	I videophone signal include using a graphical user interface.
1	36.	The method of Claim 29, wherein the step of creating said videophone
2	signal compri	ises: capturing an image via a digital camera.
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